

Title (en)

Camera having microlens array in front of the photographic film and related imaging method

Title (de)

Kamera mit Mikrolinsenraster vor dem fotografischen Film und entsprechendes Abbildungsverfahren

Title (fr)

Appareil photographique avec un réseau de microlentilles devant le film photographique et procédé d' imagerie correspondant

Publication

EP 1372027 A3 20040929 (EN)

Application

EP 03076712 A 20030602

Priority

US 16779402 A 20020612

Abstract (en)

[origin: EP1372027A2] Methods and apparatus are provided that use a photosensitive element that is photosensitive to light within a predetermined range of exposure levels to capture images including exposure levels that are outside of the predetermined range of exposure levels. The photosensitive element is exposed to light from a scene. The light from the scene is fractured into concentrated and residual portions with the concentrated portions being directed to form a pattern of concentrated image elements on the photosensitive element when light from the scene is within a first exposure range with the residual portion of the light being directed to form a residual image when light from the scene is within a second exposure range. The light from the scene is adapted also so that the pattern of concentrated image elements is formed in a predefined pattern of concentrated image areas on the photosensitive element. <IMAGE>

IPC 1-7

G03B 17/00; **G02B 3/00**

IPC 8 full level

G02B 3/00 (2006.01); **G03B 15/00** (2006.01); **G03B 17/00** (2006.01)

CPC (source: EP US)

G03B 17/00 (2013.01 - EP US)

Citation (search report)

- [Y] US 5610390 A 19970311 - MIYANO HITOSHI [JP]
- [Y] US 6014232 A 20000111 - CLARKE JOHN A [GB]
- [YX] PATENT ABSTRACTS OF JAPAN vol. 017, no. 535 (E - 1439) 27 September 1993 (1993-09-27)
- [YX] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 09 30 September 1996 (1996-09-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 22 9 March 2001 (2001-03-09)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1372027 A2 20031217; **EP 1372027 A3 20040929**; CN 1467560 A 20040114; JP 2004046162 A 20040212; US 2003231880 A1 20031218; US 6868231 B2 20050315

DOCDB simple family (application)

EP 03076712 A 20030602; CN 03142483 A 20030612; JP 2003166612 A 20030611; US 16779402 A 20020612